ᓄᓇᕗᒻ ᐊᐢᑎᓕᓇᕐᓂᖅ ᑲᑎᒪᔨᖏᑦᑎᙱᑦ ᑐᓴᖅᓯᒪᔪᖅ #125473

Fisheries and Oceans Canada - Small Craft Harbour - Four Harbour Feasibility Study Field Program

ᑐᓴᕐᓗᒍᑕᐅᔪᖅ ᖃᓄᐃᑦᑐᖅ:	New
ᐱᓕᕆᓇᖅᑐᐅᔪᒪᔨᑦ ᖃᓄᐃᑦᑐᖅ:	Scientific Research
ᐅᑉᓗᖏᑦ ᑐᓴᕐᓗᑎᒃᓴᓕᐅᑉᐳᖅ:	6/4/2019 7:18:57 PM
Period of operation:	from 0001-01-01 to 0001-01-01
ᑲᔪᓯᖅᑲᐃᔨᐅᓂᐊᖏᓪᓗᓯᒪᔪᑦ:	from 0001-01-01 to 0001-01-01
ᐱᓕᕆᐊᖏᖅᑭᒪᔪᖅ:	Eleanor McEwan Fisheries and Oceans Canada -Small Craft Harbours 501 University Crescent Winnipeg Manitoba R3T 2N6 Canada ᐅᖏᓐᓇᐅᑎᑦ: 204-984-1102, ᓯᑲᔪᓵᑦ:

ᑐᓴᐅᒪᔭᖅᓴᑦ

ᖃᓄᐃᑦᑐᑎᓂᒃ ᐱᓕᓇᐊᖃᖅᓂᐊᓇᐊᖏᓐᓂᒃ

ᖃᖅᑎᓗᒍᑦ: Advisian has been retained by Fisheries and Oceans Canada – Small Craft Harbours Program (DFO-SCH) to conduct an engineering feasibility study for the construction of small craft harbour (SCH) for four communities in Nunavut: Arctic Bay, Grise Fiord, Resolute Bay, and Clyde River. To inform the feasibility study, a field program will be undertaken during the 2019 open water season to conduct environmental, geoscience, geophysics and archaeological baseline studies in each location as detailed in Table 1 1 and Figure 1 of the attached report. All locations are in the Qikiqtaaluk Region. The field program consists of the following: •Marine Field Study Wildlife Field Study•Vegetation Field Study•Geoscience Field Study•Geophysics Field Study •Archaeological Field Study Study Areas will be developed prior to mobilization into the field to encompass the following Project components: •Small Craft Harbour (SCH)•Haul Road and Quarry•Disposal at Sea sites (not confirmed if required) All Study Areas will be designed to include the maximum footprint required for construction plus a 100 m buffer. Study areas were not defined at the time of this permit application, but their predicted extent is described in Table 3 1 and displayed in Attachment 1 of the attached report. Field surveys are required to document existing conditions within the Project Study Areas and to support engineering design. A summary of the purpose and proposed methodology for each of the field studies is provided in Table 3 2 of the attached report.

ᐅᐃᓴᑎᑐᑦ: not required for North Baffin

ᐃᓄᖅᑎᑐᑦ: ᐊᑦᑯᐃᓯᐊᓐ (Advisian) ᑎᒍᓴᐅᓯᒪᓕᕐᓴᒪᑕ ᐃᕐᖃᓕᓂᓇᔨᖅᑯᑦ ᐊᒻᒪ ᐃᒪᓕᓂᓇᔨᖅᑯᑦ ᑲᓇᑕᒥᑦ – ᒥᑭᑦᑐᓄᑦ ᐅᒥᐊᕐᓄᑦ ᐅᕐᖅᑯᐊᓂᓕᖅᓄᑦ ᑐᓴᒃᑯᕐᔭᖅᑎᑦ ᐱᓕᓂᓇᐊᒧᑦ (DFO-SCH) ᐱᓕᓂᕐᑯᔭᐅᓴᑎᑐᖅ ᐊᑐᓂᓇᐊᖏᔪᓐᓇᖅᓯᓕᑦ ᖃᐅᔨᓴᑯᔭᐅᓴᑎᑐᖅ (SCH) ᒋᔭᑯᓕᖅ ᑎᕐᓴᓕᓄᑦ ᓄᓇᓕᖅᓄᑦ ᓄᓇᕗᒥᑦ: ᐃᔭᐱᐊᕐᔪᒃ, ᐊᐅᓯᐊᐅᑐᖅ, ᖃᖅᐅᓯᐊᐅᑐᖅ, ᐊᒻᒪᓗ ᑲᖏᕐᖅᑐᒍᕐᓴᖅ. ᑐᓴᖅᓯᒪᕐᓂᔪᑦ ᐱᓕᓂᐊᖏᔪᓐᓇᖅᓯᓕᓄᑦ ᖃᖅᐅᔨᓴᐃᓂᖅ, ᓄᓇᑦ ᐱᓕᓂᐊᖅ ᐱᓕᓂᐊᖏᓯᓯᒪᕐᓂᐊᖅᑐᖅ 2019 ᓯᔪᖅᖏᑎᑎᕐᓂᔪᒃ ᐊᑦᑯᑎᒍᑦ, ᓄᓇᑦ ᑭᒡᓕᓯᓂᐊᖅᓱᑦ, ᓄᓇᐅᑦ ᖃᓄᐃᓕᖅᓴᖅᓴᖅ ᐊᒻᒪᓗ ᐃᑦᑕᓂᓕᓂᓇᖅᓯᒪᒍᑎᓄᑦ ᐱᑎᐊᑭᑎ ᖃᐅᔨᓴᑯᑎᓄᑦ ᐅᔪᓇᐃᓕᖅᓯᓯᒪᔪᓂᑦ ᓇᔪᓇᐃᓕᖅᓯᓯᒪᔪᓂᑦ 1 1 ᐊᒻᒪᓗ ᐊᖅᐅᖏᔪᐊᖅ 1 ᐊᑕᔪᓂᑦ ᐅᓂᒃᑲᓂᑦ. ᐊᑕᖏᓕᖅᓱᑎᒃ ᓇᓱᓂᓂᖏᑦ ᖃᑭᖅᑕᒋᔭᑦ ᐊᐃᑲᖅᓯᒪᔪᖏᓐᓂᑦᑐᑦ. ᓄᓇᒥᑦ ᐱᓕᓂᐊᖅ ᐃᓇᐅᑎᑦᑎᔪᖅ ᐅᒪᔪᓂᒃ: •ᑕᓇᐅᒥᑦ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅ ᐅᒪᔪᑦ ᓄᓇᓂᑦ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅ•ᐱᑭᖅᑐᓂᒃ ᓄᓇᒥᑦ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅ•ᓄᓇᒥᑦ ᑭᓯᓚᕐᓂᖅᓱᑦ ᓄᓇᒥᑦ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅ•ᓄᓇᐅᔪᑦ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅ ᓄᓇᑦ ᐊᖅᑭᑐᑕᐅᔪᖅᑐᑦ ᐱᑎᐊᒃᓯᓇᓚᐅᖅᓯᓚᐅᖅᓴᖅᓱᖅᓴᖅ ᓄᓇᓕᖅ ᐊᑐᖅᑐᑦ (ᓇᓗᓇᐃᖅᑕᐅᔪᒪᓚᖅᑐᑦᑐᑦ ᓯᓂ ᑕᐃᒪᐃᑦᑕᓇᐊᖅᑲᖅᑕᑦ)ᐊᑕᖏᓕᖅᓴᖅᓂᒃ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅᓱᑦ ᓄᓇᐃ ᐊᖅᑭᑐᑕᐅᔪᒪᓚᖅᑐᑦ ᐃᓇᐅᑎᑦᑎᓗᓂᒃ ᐊᖏᑦᓇᒥᑦ ᑐᒥᖅᓴᓗᓂᒃ ᑕᐃᒪᐃᑦᑕᓇᐊᖅᑲᖅᑕᑦ ᓴᓇᑎᑦᓗᓂᒃ ᑕᐃᒪᐃᑦᑕᓇᐊᖅᑲᖅᑕᑦ ᓴᓇᑎᑦᓗᓂᒃ 100 ᒥᑦᑕ ᑕᐃᒪᐃᓕᓴᐃᓐᓇᖅᑐᑦ. ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅᓱᑦ ᓄᓇᐃᑦ ᓇᓗᓇᐃᖅᑕᐅᔨᒪᓂᖏᑦᑐᑦ ᐃᓐᓇ ᑲᔪᓯᖅᓱᒪ ᐊᖏᑦᖃᖅᑕᐅᓇᖏᓐᓂᓕᖅᓱᑦ ᐅᑉᑐᒍᒪᔭᖅᑐᑦ, ᑭᓯᐊᓂᓕ ᓇᓗᓇᐃᖅᑕᐅᔨᒪᓂᖏᑦᑐᑦ ᐊᖏᑦᓂᓕᓂᓇᖅᓯᒪᒍᑎᓄᑦ ᐃᓕᓴᕐᓂᖅᓱᑦ 3 1 ᐊᒻᒪᓗ ᓴᖅᑭᒃᑲᓂ ᐊᑦᑕᑕᖅᓯᒪᔨᖅ 1 ᑕᒡᒋᓂᑦ ᐊᑕᔪᑦᑕ ᐅᓂᒃᑲᑎᑦ. ᓄᓇᒥᑦ ᖃᐅᔨᓴᐃᓂᓕᖅᓴᖅᓱᑦ ᐱᑕᖃᖅᓇᐊᖏᑦ ᑎᑎᕋᖅᑕᐅᔨᒪᓂᖏᑦᑐᑦ ᐃᓇᐊᓂᑦ ᐱᓕᓂᐊᖅᓴᓇᔨᖅᑐᑦ ᖃᐅᔨᓴᐃᓂᖅ ᓄᓇᓂᑦ ᐊᒻᒪᓗ ᐃᒃᑯᓕᕐᓴᖅᓄᑦ ᐊᖏᑦᖃᖅᑕᐅᓇᖏᓐᓂᓕᖅᓱᑦ ᐊᖏᑦᑭᐅᓕᓂᒃᓂᖅ. ᓇᐃᓐᓂᑕᖅᓯᓕᕐᓴᖅ ᐱᓕᓂᐊᖅ ᐊᒻᒪᓗ ᐊᖏᑦᑎᓂᒃ ᐃᓕᓴᕐᓂᖅᓱᑦ 3 2 ᐊᑕᔪᓂᑦ ᐅᓂᒃᑲᓂᑦ.

Inuinnaqtun: not required for North Baffin

Personnel

Personnel on site: 6

Days on site: 8

Total Person days: 48

Operations Phase: from 2019-07-04 to 2019-08-15

ᐱᓪᓇᐊᓇᔨᐅᓂᐊᖅᑐᑦ

ᓄᒥ	ᖁᓄᐃᑦᑐᒥᑦ ᐱᓪᓇᐊᖅᖁᓂᐊᖅᐸ	ᑭᒃᔪᑦ ᓄᓇᕐᔪᒋᓂᓂ	ᑐᓴᐅᒪᔨᒃᓴᑦ ᓄᓇᐅᑦ ᐊᑐᓴᐅᓪᓇᐅᖅᑭᓚᐅᖅᓯᒪᔨᓇᐊᖅᑲᓐᓂᒃ	ᐃᑦᓴᓂᓕᖅᖁᓴᖅᓯᐅᓪᓇᐅᖅᐸ ᐃᓄᖅᓄᑦ ᓇᔾᖅᑕᐅᖅᑦᑕᖅᓂᔪᓂᓂᓕᓪᓇᐅᖅᑐᖅ	ᖁᓂᓐᓂᖅᐸᖅ ᓄᓇᓕᑭᔨᐅᔪᖅ ᐊᒻᒪᓗ ᓴᓪᒥᑲᑦᑭᔭᐅᓪᓇᐅᖅᑐᖅ ᓯᓇᓄᑦ
Resolute Bay	Baseline data	Inuit Owned Surface Lands	engagement with communities for harbour design is underway	pending field program	marine environment fronting community
Grise Fiord	Baseline data	Municipal	engagement with communities for harbour design is underway	pending field program	marine environment fronting community
Clyde River	Baseline data	Municipal	engagement with communities for harbour design is underway	pending field program	within
Arctic Bay	Baseline data	Municipal	engagement with communities for harbour design is underway	pending field program	marine environment fronting community

ᓄᓇᓕᐅᑦ ᐃᓕᐅᖅᑕᐅᓂᖓ ᓄᓇᓖᓪᓗ ᐊᐃᑲᑐᖅᓯᒪᔨᖅᓂᖓᓄᑦ ᐃᑲᔪᑕᐅᔪᓐᓇᖅᑐᑦ

ᓄᓇᓕᑭᔨᖅ	ᐊᑎᑦ	ᑲᑐᔾᔨᐊᖅᑎᑎᑭᔨᖅ	ᖁᓕᕐᓂᐊᖅᑐᑦ ᑐᓴᐅᒪᔨᐊᓇᐊᖅᑭᓂᓂᑦ
Clyde River	James Arreak (SAO) Mayor and Council members	SAO - Hamlet	2019-05-24
Clyde River	Gary Aipellee (HTO manager) and HTO board members	Nangmautaq HTO	2019-05-24
ᐊᐅᓯᐃᑦᑐᖅ	Marty Kulukuqtuq(SAO), Mayor and Council members	Hamlet	2019-05-29
ᐊᐅᓯᐃᑦᑐᖅ	Amon Akeeagok (HTO manager) and HTO Board members	Iviq HTO	2019-05-29
ᐃᓱᐱᐊᕐᓴᓱ	Deborah Johnson (SAO), Mayor and Council members	Hamlet	2019-06-05
ᐃᓱᐱᐊᕐᓴᓱ	Jennifer Pauloosie (HTA manager), HTA board members	Ikajutit HTA	2019-06-04
ᖁᐅᓯᐃᑦᑐᖅ ᑭᓴᓗᑦ	Nancy Amarualik (HTA Manager), HTA Board	Resolute Bay HTA	2019-06-02

	members		
ᖁᑲᓯᐃᑦᑐᖅ ᑭᓴᓪᑦ	Kimberly Young (SAO), Mayor, Council members and EDO	Hamlet	2019-06-03

ᓕᐃᓴᓐᓂᑦ ᐱᒍᖏᓂᐅᑎ ᐊᖏᕐᕋᑕᐅᓂᒪᓕᕆᑦ

ᓇᒋᑎᐊᖏᓐᓂᖅ ᐱᓕᓇᐊᓇᖏᓂᐅᐊᖅᑐᑦ ᑎᑎᕀᓕᑦᑕ:

North Baffin

ᓕᐃᓴᓐᓂᑦ ᐱᒍᖏᓂᐅᑎ ᐊᖏᕐᕋᑕᐅᓂᒪᓕᕆᑦ

ᑲᓴᒪᑎᐅᐅᔨᑦ ᐊᐃᖅᑐᓄᑦᓯᐅᒪᓐᓂᓕᓐᓂᖅ ᒪᓕᑲᕀᓇᖅᓂᖅ ᐱᕀᔪᕀᓇᖅᓂᓕᓂᖅ ᖃᒪᒋᑦ ᐱᓕᕆᓂᑎᓂᖅ ᓕᐃᓴᓐᓂᓗᓂᓕᖅ ᖃᓄᓂᖅᐃᐃᒋᑦ	ᖁᓕᐃᑦᑐᑦᓯᓕᐅᕐᓂ ᓕᐃᓴᓐᓂᑦᑕᑎᐅᔨᖅ ᐱᔨᖅᓕᐅᑎᑎᑕᐅᔨᖅ ᐊᖏᕐᕋᑕᐅᔨᕐᒥᒃ	ᐃᓐᓇ ᖁᓕᐃᓕᓂᖅᓂ	ᐅᓐᓗᒥ ᑐᓂᔪᖅ/ ᑐᓴᕐᖅᑐᑕᐅᓕᐅᖅᓂᒪᓕᕆᖅ	ᑭᓚᖁᕐᐃᖅᓯ
ᖃᓇᑕᒥ ᐃᕐᖁᓗᓕᓇᓐᑦ ᑕᓇᐅᓕᓇᓐᓄᑦ	License to Fish for Scientific Purposes (infaunal sediment collection, intertidal amphipods)	Applied, Decision Pending		
ᓄᓇᕗᒻ ᕿᓚᒻᒥᐅᑎᒃ	Research Permit. Separate for each location	Applied, Decision Pending		
ᓄᓇᕗᑦ ᓚᒋᒪᖅ, ᐊᒋᑎᓕᓇᓐᓂᒃᑯ	Wildlife Permit	Applied, Decision Pending		
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Arctic Bay (2019-51A)	Active	2019-06-05	2019-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Clyde River (2019-54A)	Active	2019-06-05	2019-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Grise Fiord (2019-52A)	Active	2019-06-05	2019-12-31
Government of Nunavut, Department of Culture, Language, Elders, and Youth	Class 2 Nunavut Territory Archaeologist Permit. Resolute Bay (2019-53A)	Active	2019-06-05	2019-12-31

Project transportation types

Transportation Type	ᓄᓇᒧᑦ ᐊᑐᓚᐅᓂᐊᖅᓯ	Length of Use

Air	Charter flight from Vancouver to each of the communities. Departure from Nunavut from last community will occur on commercial flight	
Water	Field work will require access to the marine environment (boats). Local support has been engaged for vessels and personnels in each community	
Land	Field work will require access to the terrestrial environment. Local support has been engaged for trucks/ATVs and personnels in each community	

Project accomodation types

ᓄᓇᓕᒥᔭᖅ

ᐊᑐᒪᐅᓂᐊᖅᑐᖅ

ᐱᖏᑦ ᐊᖅᑭᔪᖅ ᐊᑐᖅᑕᐅᓂᐅᓴᔪᖅ ᐃᓕᖅᓭᐅᑎᓄᑦᑎᑦ ᐃᓱᑕᐃᑦ, ᒥᑦᓄᐊᕈᑎᑦ, ᖅᑲᖏᑕᓯᖅ, ᓄᓇᓭᐅᑦ ᐊᓯᖅᑭᑦᓄ

ᐊᖅᑭᔪᖅ ᐱᖏᑦ ᐊᑐᒪᐅᓂᐊᖅᑐᖅ ᖃᖅᑲᐃᑦᑐᖅᑏᖅ	ᖃᖅᑦᓭᐅᔾᔨᑦ	ᐊᖅᑭᓂᖅᑭᑦ - ᐳᖅᑐᓂᖅᑭᑦ	ᓭᓇᒧᑦ ᐊᑐᒪᐅᓂᐊᖅᐸ
Information is not available			

ᑎᑎᕆᐅᓭᓇᓄᑯ ᐅᖅᓯᓵᕐᐃᑦ ᐊᑦᑕᓇᖅᑐᖅᑕᓂᔪᓄ ᐊᑐᖅᑕᐅᓂᐊᕐᓂᖅᑭᑦ

ᓭᓇᒧᑦ ᐅᖅᓯᓵᕐᐃᓐᓇᖅᑐᑦ ᐊᑐᖅᑕᐅᓂᐊᖅᐸ	ᖃᖅᑲᐃᑦᑐᖅᑏᑦᓯᓇᐅᔭᖅ ᐅᖅᓯᓵᕐᐃᓐᓇᖅᑐᑦ	ᖃᖅᑦᓭᐅᔾᔨᖃᖅᐅᑎᑦ ᐅᖅᓯᓵᕐᐃᓐᓇᖅᑐᑦ	ᐳᕐᓴᐅᑎᓪᓗᒍ ᐃᒪᐃᓕᓐᓂᐊᕐᓂᖅᓱᒃᑐᖅ	ᑲᑎᒪᓂᓄᑯ	ᐳᕐᓴᐃᐅᑦ ᐊᒥᓱᓂᖅᑭᑦ	ᓭᓇᒧᑦ ᐊᑐᒪᐅᓂᐊᖅᐸ
Information is not available						

ᐃᒪᖅ ᐊᑐᖅᑕᐅᔨᒧᑦᑐᖅ

ᐅᓪᓗ ᑕᒧᖅ ᐊᑐᖅᑕᐅᓂᐊᖅᑐᖅ	ᖃᖅᓄᖅ ᐃᒥᖅᑕᖅᖃᖅᑕᕐᓂᐊᖅᐸᑦ	ᓄᑭᑦ ᐃᒥᖅᑕᖅᖃᖅᑕᕐᓂᐊᖅᐸᑦ
0		

ᐊᑲᑕᔪᑦ

ᐊᑲᑕᔪᓪᓗᓂᐊᕐᓂᖅ

ᐱᓕᓇᐊᓇᔭᐅᔾᔨᒪᔨᒧᑦ ᐱᓕᓇᐊᓇᔭᐅᓂᐊᖅᑐᖅ	ᖃᓄᐃᐃᑦᑐᖅ ᐊᑲᑕᔪᖅ	ᖃᓄᐃᑎᒋ ᐊᑲᑕᔪᑦ ᓴᖅᑭᐊᓂᐊᖅᑐᓇᔭᐅᐅᓚᑦ	ᖃᓄᐃᓂᖅ ᐊᑲᑕᖅᑕᐅᓂᐊᖅᐸ	ᓴᓗᒪᖅᓴᐅᑎᑲᑲᓐᓂᓂᐅᐊᖅᑐᑦ
Information is not available				

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There are no effects anticipated as the program is a small field study to determine baseline conditions for each of the communities should the proposed small craft harbours proceed to detailed design and permitting.

Additional Information

SECTION A1: Project Info

SECTION A2: Allweather Road

SECTION A3: Winter Road

SECTION B1: Project Info

SECTION B2: Exploration Activity

SECTION B3: Geosciences

SECTION B4: Drilling

SECTION B5: Stripping

SECTION B6: Underground Activity

SECTION B7: Waste Rock

SECTION B8: Stockpiles

SECTION B9: Mine Development

SECTION B10: Geology

SECTION B11: Mine

SECTION B12: Mill

SECTION C1: Pits

SECTION D1: Facility

SECTION D2: Facility Construction

SECTION D3: Facility Operation

SECTION D4: Vessel Use

SECTION E1: Offshore Survey

SECTION E2: Nearshore Survey

SECTION E3: Vessel Use

SECTION F1: Site Cleanup

SECTION G1: Well Authorization

SECTION G2: Onland Exploration

SECTION G3: Offshore Exploration

SECTION G4: Rig

SECTION H1: Vessel Use

SECTION H2: Disposal At Sea

SECTION I1: Municipal Development

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the purpose of the field study is to collect baseline data which will be combined with traditional knowledge studies being conducted in October 2019. A baseline report will be produced to outline conditions for each community.

ᐃᓐᓇ ᐊᕐᑎᐅᕆᑦ ᖃᓄᐃᑦᑐᑦᓯᓇᐅᓂᖅᓱ: ᐅᒪᔨᖅᑕᖃᖅᓂᖅᓱ

the purpose of the field study is to collect baseline data which will be combined with traditional knowledge studies being conducted in October 2019. A baseline report will be produced to outline conditions for each community.

ᐃᓐᓇ ᐊᕐᑎᐅᕆᑦ ᖃᓄᐃᑦᑐᑦᓯᓇᐅᓂᖅᓱ: ᐃᓄᓕᓇᓂᖅᔩᖅᓱᔪᑦ-ᐱᕐᓕᐊᔪᓕᓇᓂᖅᔩᖅᓱᔪᑦ

the purpose of the field study is to collect baseline data which will be combined with traditional knowledge studies being conducted in October 2019. A baseline report will be produced to outline conditions for each community.

Miscellaneous Project Information

not relevant

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None expected. During the geophysics study, the vessel will cease operations when narwal are observed in close proximity (less than 200 m).

Cumulative Effects

None anticipated

Impacts

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	PHYSICAL	Designated environmental areas	Ground stability	Permafrost	Hydrology / Limnology	Water quality	Climate conditions	Eskers and other unique or fragile landscapes	Surface and bedrock geology	Sediment and soil quality	Tidal processes and bathymetry	Air quality	Noise levels	BIOLOGICAL	Vegetation	Wildlife, including habitat and migration patterns	Birds, including habitat and migration patterns	Aquatic species, incl. habitat and migration/spawning	Wildlife protected areas	SOCIO-ECONOMIC	Archaeological and cultural historic sites	Employment	Community wellness	Community infrastructure	Human health
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(P = ᐊᑲᐅᓴᕈᑎᔪᓐᓇᖅᑐᑦ, N = ᐊᑲᐅᖏᑦᔨᔪᑕᐅᔪᓐᓇᖅᑐᑦ ᕿᓚᐅᒻᔨᔪᓂᖅᑐᑕᐅᔪᓐᓇᖅᑐᑦ ᕿᓚᐅᒻᔨᔪᓂᖅᑐᑕᐅᔪᓐᓇᖅᑐᑦᓗ, M = ᐊᑲᐅᖏᑦᔨᔪᑕᐅᔪᓐᓇᖅᑐᑦ ᕿᓚᐅᒻᔨᔪᓂᖅᑐᑕᐅᔪᓐᓇᖅᑐᑦᓗ, U = ᖃᑲᐅᔨᒪᓐᓇᖏᑦᑐᖅ)

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List of Project Geometries

1	point	Arctic Bay
2	point	Clyde River
3	point	Grise Fiord
4	point	Resolute Bay